**Terna Engineering College**

**Computer Engineering Department**

Program: Sem VIII

**Course: Human Machine Interaction(HMI)**

**Faculty: Umesh B Mantale**

**LAB Manual**

**PART A**

(PART A : TO BE REFFERED BY STUDENTS)

**Experiment No.08**

|  |  |
| --- | --- |
| **A.1** | **Aim:** |
|  | Design a theme based Icon for the selected Application. |
|  |  |
| **A.2** | **Prerequisite:**   1. Knowledge about Icons and Images. 2. Knowledge of user interface and importance of Icons in Human Recognition |
|  |  |
| **A.3** | **Outcome:** |
|  | **After successful completion of this experiment students will be able to**   1. To apply HMI principles and guidelines in designing effective User Interfaces. 2. To design Interactive user interfaces for any specific Application |
|  |  |
| **A.4** | **Theory:** |
|  | * **Icons** * Icons are most often used to represent objects and actions with which users can interact with or that they can manipulate. * These types of icons may stand alone on a desktop or in a window, or be grouped together in a toolbar. * A secondary use of an icon is to reinforce important information, a warning icon in a dialog message box, for example. * Icon is a small picture that represents an object or program. * Icons are very useful in applications that use windows, because with the click of a mouse button you can shrink an entire window into a small icon. (This is sometimes called minimizing*.*) To redisplay the window, you merely move the pointer to the icon and click (or double click) a mouse button. (This is sometimes called restoringormaximizing) Icons are a Principle feature of graphical user interfaces. Computer icons, in conjunction with computer windows, menus and a pointing device, form the graphical user interface (GUI) of the computer system, and enable the user to easily and intuitively navigate the system. * **Icon:** **Something that looks like what it means. OR Something that looks like what it means.** * **Types of icons:** * **Resemblance icon** —an image that looks like what it means. book, for example * **Analogy icon** —an image physically or semantically associated with something. * **A *symbolic* icon**: is an abstract image that represents something. A cracked glass, for example. * **Exemplar icon:**  represents an example or characteristic of something. A sign at a freeway exit picturing a knife and fork has come to indicate a restaurant. * **An arbitrary icon**: is not directly related in any way and must be learned. An image completely arbitrary in appearance whose meaning must be learned. * **Some Common Icons:** |
| **A.5** | **Procedure:**   1. Create an picture of size 10X10 pixel 2. Save the file with .ico extension (for Windows) 3. Change the icon of any folder by changing the properties of folder 4. Create different sized icons for display in various modes.   **Example:** |

**PART B**

(PART B: TO BE COMPLETED BY STUDENTS)

***(Students must submit the soft copy as per following segments within two hours of the practical. The soft copy must be uploaded on the ERP or emailed to the concerned lab in charge faculties at the end of the practical in case the there is no ERP access available)***

|  |  |
| --- | --- |
| Roll No.: 63 | Name: Naimish Jagdale |
| Class: BE A | Batch: A3 |
| Date of Experiment: | Date of Submission: |
| Grade: |  |

|  |  |
| --- | --- |
| **B.1** | **Steps of Icon Design:** |
|  | Following are the steps to design icons:   1. Create a picture of size 10X10 pixel 2. Save the file with .ico extension (for Windows) 3. Change the icon of any folder by changing the properties of folder 4. Create different sized icons for display in various modes. |
| **B.2** | **ICONs Designed for themes** |
|  | Following are some icons for different themes:   |  |  |  | | --- | --- | --- | | Silent Icons Images, Stock Photos & Vectors | Shutterstock  Silent | Bluetooth Icons - Download Free Vector Icons | Noun Project  Bluetooth | Alarm Icon Outline - Icon Shop - Download free icons for commercial use  Alarm call | | Free Icon | Wifi  Wi-fi | Volume level - Free multimedia icons  Volume | Fast, forward, next, skip icon - Download on Iconfinder  Forward | | Mute | Close Free Icon of Eva Fill Icons  Close | Map, place, pin, location icon - Download on Iconfinder  Location | |
| **B.3** | **Advantages of Icon:**   1. Icons are effective communication devices 2. Icons provide personality 3. Icons add interest 4. Icons aid navigation |
|  |  |
| **B.4** | **Disadvantages of Icon:**   * + - 1. Clutter       2. Lack of Purpose       3. Redundancy |
|  |  |
| **B.5** | **Snapshot of Design Icon :** |
|  | News Icons - 15,135 free vector icons |
|  |  |
| **B.6** | **Conclusion:**  We have designed logo for online news channel. |

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